The Journal of
Membrane Biology

An international journal for studies on the structure, function and genesis of biomembranes

Volume 149 1996

Editorial Board

W.R. Loewenstein, Woods Hole, Editor-in-Chief

Q. Al-Awqati, Columbia
B.P. Bean, Harvard
G. Blobel, Rockefeller
D. Branton, Harvard
D. Engelman, Yale
J. Handler, Johns Hopkins
A. Helenius, Yale
A.E. Hill, Cambridge
W.L. Hubbell, California, L.A.
P.L. Jørgensen, Copenhagen
R.B. Kelly, California, S.F.
A. Klug, Cambridge
E.A.C. MacRobbie, Cambridge
H.M. McConnell, Stanford
S. McLaughlin, SUNY, Stony Brook
M. Milanick, Missouri, Columbia
J.S. Morrow, Yale
H. Murer, Zurich
G.E. Palade, California, S.D.
H. Reuter, Bern
B. Sakmann, Max-Planck, Heidelberg
R.W. Schekman, California, Berkeley
S.G. Schultz, Texas
C.L. Slayman, Yale
K.R. Spring, N.I.H.
C.F. Stevens, Salk Insititute
W. Stoeckenius, California, S.F.
H.H. Ussing, Copenhagen
G. Yellen, Harvard

C.H. Fay, Assistant to the Editor

Springer

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in the United States

© 1996 Springer-Verlag New York, Inc.

Author Index

Awayda, M.S., *see* Ismailov, I.I., et al. 123
Baldwin, S.A., *see* Sviderskaya, E.V., et al. 133
Bastide, B., *see* Hervé, J.C., et al. 179
Bastide, B., *see* Pluciennik, F., et al. 169
Bates, J., *see* Kaji, D.M., et al. 49
Beilby, M.J., Walker, N.A.: Modeling the Current-Voltage Characteristics of *Chara* Membranes: I. The Effect of ATP Removal and Zero Turgor 89
Benos, D.J., *see* Ismailov, I.I. et al. 123
Berdiev, B.K., *see* Ismailov, I.I., et al. 123
Bertrán, G., Kotsias, B.A.: Chloride Currents in Skeletal Muscles of *Bufo arenarum* 249
Bilbaut, A., Chorvatova, A., Ojeda, C., Rougier, O.: The Transient Outward Current of Isolated Bovine Adrenal Zona Fasciculata Cells: Comparison between Standard and Perforated Patch Recording Methods 233
Bojesen, E., *see* Bojesen, I.N. 257
Bojesen, I.N., Bojesen, E.: Specificities of Red Cell Membrane Sites Transporting Three Long Chain Fatty Acids 257
Bradford, A.L., *see* Ismailov, I.I., et al. 123
Brand, J.G., *see* Feigin, A.M., et al. 41
Bregante, M., *see* Menestrina, G., et al. 113
Brüdern, A., *see* Thiel, G., et al. 9
Bursell, J.D.H., *see* Lewis, R.A., et al. 103
Buyse, G., *see* Szücs, G., et al. 189
Chen, X-Z., *see* Coady, M.J., et al. 1
Chorvatova, A., *see* Bilbaut, A., et al. 233
Coady, M.J., Chen, X.-Z., Lapointe, J.-Y.: rBAT is an Amino Acid Exchanger with Variable Stoichiometry 1
Dalla Serra, M., *see* Menestrina, G., et al. 113
Davidson, R.M., *see* Gofa, A. 211
Delage, B., *see* Hervé, J.C., et al. 179
Délèze, J., *see* Hervé, J.C., et al. 179
Délèze, J., *see* Pluciennik, F., et al. 169
DelRaso, N.J., Huang, Y., Lu, L.: Effects of Chlorotrifluorethylene Oligomer Fatty Acids on Recombinant GABA Receptors Expressed in *Xenopus* Oocytes 33
Dodane, V., Kachar, B.: Identification of Isoforms of G Proteins and PKC that Colocalize with Tight Junctions 199
Donowitz, M., *see* Tai, Y.-H., et al. 71
Droogmans, G., *see* Szucs, G., et al. 189
Eggermont, J., *see* Szucs, G., et al. 189
Feigin, A.M., Takemoto, J.Y., Wangspa, R., Teeter, J.H., Brand, J.G.: Properties of Voltage-gated Ion Channels Formed by Syringomycin E in Planar Lipid Bilayers 41
Fischbarg, J., *see* Hernández, J.A., et al. 57
Flick, J., *see* Tai, Y.-H., et al. 71
Fuller, C.M., *see* Ismailov, I.I., et al. 123
Gambale, F., *see* Menestrina, G., et al. 113
Gofa, A., Davidson, R.M.: NaF Potentiates a K^+-selective Ion Channel in G292 Osteoblastic Cells 211
Goyzueta, J.D., *see* Kaji, D.M., et al. 49
Gradmann, D., *see* Thiel, G., et al. 29
Gray, M.A., *see* Shindo, M., et al. 21
Hernández, J.A., Fischbarg, J., Vera, J.C.: Modeling Facilitative Sugar Transporters: Transitions Between Single and Double Ligand Occupancy of Multiconformational Channel Models Explain Anomalous Kinetics 57
Hervé, J.C., *see* Pluciennik, F., et al. 169
Hervé, J.C., Pluciennik, F., Verrecchia, F., Bastide, B., Delage, B., Joffre, M., Délèze, J.: Influence of the Molecular Structure of Steroids on Their Ability to Interrupt Gap Junctional Communication 179
Hoffmann, E.K., *see* Pedersen, S.F., et al. 141
Huang, Y., *see* DelRaso, N.J., et al. 33
Ismailov, I.I., Berdiev, B.K., Bradford, A.L., Awayda, M.S., Fuller, C.M., Benos, D.J.: Associated Proteins and Renal Epithelial Na^+ Channel Function 123
Jazrawi, E., *see* Sviderskaya, E.V., et al. 133
Joffre, M., *see* Hervé, J.C., et al. 179
Joffre, M., *see* Pluciennik, F., et al. 169
Jørgensen, N.K., *see* Pedersen, S.F., et al. 141
Kachar, B., *see* Dodane, V. 199
Kaji, D.M., Bates, J., Goyzueta, J.D., Prasadan, K., Yu, H., Kumar, S.: Transfection Alters Ion Transport in MDCK Cells 49
Kirk, K., *see* Lewis, R.A., et al. 103
Koh, D.-S., Vogel, W.: Single-Channel Analysis of a Delayed K^+ Channel in *Xenopus* Myelinated Nerve 221
Kotsias, B.A., *see* Bertrán, G. 249
Kramhoft, B., *see* Pedersen, S.F., et al. 141
Kumar, S., *see* Kaji, D.M., et al. 49
Lapointe, J.-Y., *see* Coady, M.J., et al. 1
Levine, S.A., *see* Tai, Y.-H., et al. 71
Lewis, R.A., Bursell, J.D.H., Kirk, K.: Anion-selectivity of the Swelling-activated Osmolyte Channel in Eel Erythrocytes 103
Lu, L., *see* DelRaso, N.J., et al. 33
Madara, J.L., *see* Tai, Y.-H., et al. 71
Menestrina, G., Pederzolli, C., Dalla Serra, M., Bregante, M., Gambale, F.: Permeability Increase Induced by *Escherichia coli* Hemolysin A in Human Macrophages is Due to the Formation of Ionic Pores: A Patch Clamp Characterization 113
Nilius, B., *see* Szücs, G., et al. 189
Ojeda, C., *see* Bilbaut, A., et al. 233
Park, J.H., Saier, M.H., Jr.: Phylogenetic, Structural and Functional Characteristics of the Na-K-Cl Cotransporter Family 161
Pasternak, C.A., *see* Sviderskaya, E.V., et al. 133
Pedersen, S.F., Kramhoft, B., Jørgensen, N.K., Hoffmann, E.K.: Shrinkage-induced Activation of the Na^+/H^+ Exchanger in Ehrlich Ascites Tumor Cells: Mechanisms Involved in the Activation and a Role for the Exchanger in Cell Volume Regulation 141
Pederzolli, C., *see* Menestrina, G., et al. 113
Pluciennik, F., *see* Hervé, J.C., et al. 179
Pluciennik, F., Verrecchia, V., Bastide, B., Hervé, J.C., Joffre, M., Délèze, J.: Reversible Interruption of Gap Junctional Communication by Testosterone Propionate in Cultured Sertoli Cells and Cardiac Myocytes 169
Prasadan, K., *see* Kaji, D.M., et al. 49
Restrepo, D., *see* Zviman, M.M., et al. 81
Rougier, O., *see* Bilbaut, A., et al. 233
Saier, M.H., Jr., *see* Park, J.H. 161
Sharp, G.W.G., *see* Tai, Y.-H., et al. 71
Shindo, M., Simmons, N.L., Gray, M.A.: Characterization of Whole Cell Chloride Conductances in a Mouse Inner Medullary Collecting Duct Cell Line mIMCD-3 21
Simmons, N.L., *see* Shindo, M., et al. 21
Sviderskaya, E.V., Jazrawi, E., Baldwin, S.A., Widnell, C.C., Pasternak, C.A.: Cellular Stress Causes Accumulation of the Glucose Transporter at the Surface of Cells Independently of their Insulin Sensitivity 133
Szücs, G., Buyse, G., Eggermont, J., Droogmans, G., Nilius, B.: Characterization of Volume-activated Chloride Currents in Endothelial Cells from Bovine Pulmonary Artery 189
Tai, Y.-H., Flick, J., Levine, S.A., Madara, J.L., Sharp, G.W.G., Donowitz, M.: Regulation of Tight Junction Resistance in T_{84} Monolayers by Elevation in Intracellular Ca^{2+}: A Protein Kinase C Effect 71
Takemoto, J.Y., *see* Feigin, A.M., et al. 41
Teeter, J.H., *see* Feigin, A.M., et al. 41
Teeter, J.H., *see* Zviman, M.M., et al. 81
Thiel, G., Brüdern, A., Gradmann, D.: Small Inward Rectifying K^+ Channels in Coleoptiles: Inhibition by External Ca^{2+} and Function in Cell Elongation 9
Vera, J.C., *see* Hernández, J.A., et al. 57
Verrecchia, F., *see* Hervé, J.C., et al. 179
Verrecchia, V., *see* Pluciennik, F., et al. 169
Vogel, W., *see* Koh, D.-S. 221
Walker, N.A., *see* Beilby, M.J. 89
Wangspa, R., *see* Feigin, A.M., et al. 41
Widnell, C.C., *see* Sviderskaya, E.V., et al. 133
Yu, H., *see* Kaji, D.M., et al. 49
Zviman, M.M., Restrepo, D., Teeter, J.H.: Single Taste Stimuli Elicit Either Increases or Decreases in Intracellular Calcium in Isolated Catfish Taste Cells 81